

Tuesday, March 20, 2018

[T344]

POSTER SESSION I: PLANETARY MISSION CONCEPTS IV: OUTER PLANETS

6:00 p.m. Town Center Exhibit Area

Hand K. P. Murray A. E. Garvin J. Horst S. Brinkerhoff W. et al. **POSTER LOCATION #675**
[The Europa Lander Mission Concept and Science Goals of the 2016 Europa Lander Science Definition Team Report](#) [#2600]

Update on the Europa lander mission concept.

Waldmann C. Winebrenner D. Bachmayer R. Hanff H. Funke O. **POSTER LOCATION #676**
[EUROPA Calling — A Comprehensive Technical Concept for Exploring Ocean Worlds](#) [#2162]

A comprehensive technical concept for exploring ocean worlds on planetary moons like Europa, Titan, and Enceladus will be presented.

Heemskerck M. V. De Zeeuw G. Foing B. H. Van Westrenen W. **POSTER LOCATION #677**
[OCEANUS Mission Design](#) [#1871]

As part of a joint course by ESA at the Vrije Universiteit Amsterdam, Bsc Geology students designed a mission to Europa, including objectives, flightplan, payload, budget, etc.

Patthoff D. A. Meirion-Griffith G. Phillips C. **POSTER LOCATION #678**
[Science on Europa and Enceladus with a Mobile Platform](#) [#2648]

Attempt a landing / Look beyond the horizon / What can be revealed.

Dijkstra H. E. van der Sanden G. A. H. F. Peters S. Zepper J. Branchetti M. et al. **POSTER LOCATION #679**
[GLACE Mission Concept: Ganymede's Life and Curious Exploration Mission](#) [#1058]

Here we present a concept mission for a third Jovian mission: GLACE Ganymede's Life and Curious Exploration Mission is a follow-up mission on the JUICE mission.

Okada T. Iwata T. Matsumoto J. Chujo T. Kebukawa Y. et al. **POSTER LOCATION #680**
[Science and Exploration in the Solar Power Sail OKEANOS Mission to a Jupiter Trojan Asteroid](#) [#1406]

SPS-OKEANOS mission is under study in Japan to rendezvous with and land on a Jupiter Trojan asteroid. Its objectives and science payloads are described here.

Bouchard M. C. Howell S. M. Chou L. Thompson M. Cusson S. et al. **POSTER LOCATION #681**
[Flyby and Impact of Chariklo: A New Frontiers Class Centaur Reconnaissance Mission Concept from the 2017 NASA-JPL Planetary Science Summer Seminar](#) [#2087]

This abstract summarizes a New Frontiers mission concept to the Centaur Chariklo that was created during the 2017 NASA/JPL Planetary Science Summer Seminar.

Austin A. A. Lee Y. H. L. Bairstow B. K. B. **POSTER LOCATION #682**
[Potential Science Investigations for Ocean Worlds Enabled by Radioisotope Power in Pressure Vessels](#) [#2795]

Discussion of science goals, desired measurements, and required instruments for *in-situ*, long-life explorers using radioisotope power on Ocean Worlds.

Aslam S. Achterberg R. K. Cottini V. Gorius N. Hewagama T. et al. **POSTER LOCATION #683**
[Net Flux Radiometer for the Ice Giants](#) [#2675]

A net flux radiometer concept is presented that will enable *in situ* probe measurements on the ice giants.

Lisse C. M. McNutt R. L. Brandt P. C. Poppe A. R. Horanyi M. *POSTER LOCATION #684*
[Interstellar Probe Observations of the Solar System's Debris Disks](#) [#2741]

We explore the return from using an Interstellar Probe telescope at $r_h = 1000$ AU to observe the amount, kind, and extent of the solar system's debris disks.

Creech S. D. Smith D. A. *POSTER LOCATION #685*
[NASA's Space Launch System Payload Transportation Beyond LEO](#) [#1070]

Describes SLS ground and flight accommodations, interfaces, resources, and performance planned to be made available to large and small science payloads.